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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,623	07/16/2003	Daiya Yamashita	2830-0139P	7297

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EXAMINER

DINH, TIEN QUANG

ART UNIT PAPER NUMBER

3644

DATE MAILED: 07/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/619,623

**Applicant(s)**

YAMASHITA ET AL.

**Examiner**

Tien Dinh

**Art Unit**

3644

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 3-10 and 21-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 3-10, 21-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3-8, 10, and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wright in view of Mendham and Huet or Janicke et al.

Wright discloses a blade member having a first and second outer skin with wall thickness that changes and a central portion that is thicker than the leading and trailing edge, reinforcing area 9 and 7, and the blade member being made out of an alloy (see column 1, line 67 and all of the figures). However, Wright is silent on the outer skins, inner skins, and reinforcing area being integrally formed by wire electrical discharge-machining from a single block. However, Mendham discloses an aircraft part being formed by wire electrical discharge-machining is well known in the art. Huet or Janicke et al discloses forming integral parts from a block is well known in the art.

It would have been obvious to one skilled in the art to have made the Wright's blade system integrally formed from a block by using wire electrical discharge-machining as taught by Mendham and Huet or Janicke et al to create a stronger unitary and more efficient blade.

Please note that in claims 1 and 22, the at least one reinforcing area is interpreted as element 9. This would read upon the claims.

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Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wright as modified by Mendham and Huet or Janicke et al as applied to claim 1 above, and further in view of Camping et al.

Wright as modified by Mendham and Huet or Janicke et al discloses all claimed parts except for the substantially flat second outer skin. Camping et al teaches that a substantially flat second outer skin (see figure 4) is well known in the art.

It would have been obvious to one skilled in the art to have made the Wright's blade second outer skin substantially flat as taught by Camping et al to increase lift.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wright as modified by Mendham and Huet or Janicke et al as applied to claim 1 above, and further in view of Platt et al.

Wright as modified by Mendham and Huet or Janicke et al discloses all claimed parts except for a portion adjacent to the first of two reinforcing area being thicker than a portion adjacent to a second of two reinforcing area. However, Platt et al teaches that a portion adjacent to a reinforcing area (the one nearest to the leading edge in figure 7) being thicker than another portion adjacent to a separate reinforcing area (the one that is closest to the trailing edge in figure 7) is well known in the art.

It would have been obvious to one skilled in the art to have made the portion adjacent to the first reinforcing area 9 of Wright be thicker than the second reinforcing area 7 of Wright as taught by Platt et al to make the propeller blade stronger.

*Response to Arguments*

The Examiner has used newly cited references Huet or Janicke et al to reject the amended claims. This renders the applicant's arguments moot.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 571-272-6899. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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*Tien*